

**ASBESTOS SURVEY & ASSESSMENT REPORT
GREDE FOUNDRIES, INC.
REEDSBURG FOUNDRY
700 ASH STREET
REEDSBURG, WI 53959**

**Nova Client No.: DAVIS005
Project No.: C00-0066**

April 20, 2000

Prepared For:

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Prepared by:

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EXECUTIVE SUMMARY

Nova Consulting Group, Inc. (Nova) was retained to perform an asbestos survey and assessment for asbestos-containing building materials (ACBM) of the Grede Foundries, Inc. Reedsburg Foundry facility located at 700 Ash Street in Reedsburg, Wisconsin.

The survey and assessment was completed in accordance with the Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA), 40 CFR 763. The purpose of this inspection was to identify suspect friable and non-friable ACBM and properly assess the confirmed friable ACBM following the AHERA Hazard Ranking System. Based on the hazard rankings, appropriate response actions have been generated following the EPA Decision Tree. Suspect materials that were inaccessible or would require intrusive or destructive sampling were not sampled as part of this survey.

Asbestos-Containing Building Materials:

The survey was conducted on March 21-22, 2000 by certified inspectors Darby Nafziger and Jeffrey Menter. Nova collected 42 samples of friable and non-friable ACBM in a random and unbiased manner. The following types of material were analyzed and determined to contain asbestos (includes presumed/assumed positive materials):

| Material Identification Number | Material Identification | Material Subcategory | Material Subcategory Description |
|--------------------------------|---------------------------------|----------------------|---------------------------------------|
| 214 | 4-8 Felt Pipe Insulation | FP1 | 6" Wrapped Pipe Insulation |
| 310 | 12x12 Floor Tile & Mastic | FT1 | Tan Mottled |
| 310 | 12x12 Floor Tile & Mastic | FT2 | White Floor Tile |
| 324 | Transite Pipe | TR1 | Exhaust pipe |
| 324 | Transite Siding | TR2 | Exterior Siding |
| 406 | Roofing Insulation/Fireproofing | RI1 | Fibrous Roof Insulation Under Decking |

AHERA hazard rankings for the friable ACBM listed above are provided in Table 1. The AHERA hazard ranking system has only been applied to friable ACBM.

The following materials do not contain asbestos:

| Material Identification Number | Material Identification | Material Subcategory | Material Subcategory Description |
|--------------------------------|-----------------------------|----------------------|---|
| 101 | Spray-On | SO1 | Spray-On Soundproofing |
| 222 | 0-4 Fibrous Pipe Fittings | FF1 | Fibrous Fittings On Fiberglass Insulation |
| 222 | 0-4 Fibrous Pipe Fittings | FF2 | 2" Mudded Fittings On Rest Room Lines |
| 241 | Tank Insulation | TI1 | Spray-On Tank Insulation |
| 303 | 2x4 Ceiling Tile | CT1 | Off-White Fissured |
| 303 | 2x4 Ceiling Tile | CT2 | White With Fissures |
| 303 | 2x4 Ceiling Tile | CT3 | Off-White With Fissures And Pinholes |
| 305 | Sheetrock & Taping Compound | DW1 | Drywall/ Taping Compound |
| 306 | Plaster | PL1 | Wall Plaster |
| 310 | 12x12 Floor Tile & Mastic | FT3 | Grey Mottled |

Conclusions:

A total of approximately 100 linear feet of friable asbestos-containing pipe-insulation and associated pipe-fittings, 4,000 square feet of friable asbestos-containing roof insulation; 1,150 square feet of non-friable asbestos-containing 12" X 12" floor tile and associated mastic; 40 square feet of non-friable transite exhaust pipe; and 800 square feet of non-friable asbestos-containing transite siding were identified during the survey.

The Environmental Protection Agencies (EPA) National Emission Standard for Hazardous Air Pollutants (NESHAP) as well as the Wisconsin Department of Natural Resources (WDNR) requires removal of regulated friable and non-friable damaged ACBM prior to demolition. EPA also requires the removal of regulated friable ACBM and non-friable ACBM that may become friable during renovation.

The Occupational Safety and Health Administration (OSHA) construction and general industry standards also regulate ACBM during removal and maintenance activities. In 1995, OSHA adopted asbestos regulations that, for the first time, may extend to many previously unregulated commercial and industrial buildings. The regulations lower the permissible asbestos exposure level in the workplace. They also make a number of technical changes both in the way various regulated activities are classified and in the practices required when asbestos is used, removed, managed, or disturbed. The biggest change, however, is to afford regulatory protection to a greater number of workers across a variety of environments.

Recommendations:

Based on the results of this investigation, Nova recommends the following:

- The facility owners should notify employees, tenants, contractors, and vendors working in the building of the presence, quantity, and location of identified or assumed ACBM.
- Approximately 100 linear feet of friable asbestos-containing pipe-insulation and associated pipe-fittings were identified beneath a stairwell adjacent to the main office area. In addition, approximately 4,000 square feet of friable asbestos-containing roof insulation was identified beneath the corrugated roof decking adjacent to a second floor storage room; 1,150 square feet of non-friable asbestos-containing 12" X 12" floor tile and associated mastic was identified in the Plant 5 Maintenance offices and storage areas; approximately 40 square feet of non-friable transite exhaust pipe was identified in the storage room above the main locker room area; and approximately 800 square feet of non-friable asbestos-containing transite siding was identified at the north storage building. The pipe insulation and associated fittings were damaged and in poor condition during the time of the survey and were given an AHERA Hazard Ranking of 2. A Hazard Ranking of 2 is defined as ACBM that is damaged and is located in areas where disruption could be expected due to work being performed in the area and/or dispersed in moving air. The roof insulation/fireproofing was not damaged and in good condition during the time of the survey and was given an AHERA Hazard Ranking of 6. A Hazard Ranking of 6 is defined as friable ACBM that is in good condition, but has potential for damage. Hazard Rankings are not required for non-friable materials (i.e. vinyl floor tile, mastic, transite) and are therefore not provided as part of this report.
- According to the EPA Decision Tree, continue Operations and Maintenance (O&M) and repair or remove damaged areas as soon as possible. Short-term corrective action may include reducing potential for damage, encapsulating damaged sections and/or restricting access to the area.

- All friable ACBM, damaged non-friable ACBM, and all non-friable ACBM, which may become friable during renovation or demolition, should be removed from the affected areas of the building prior to these activities.
- The owners should submit completed Notifications of Intent to Perform Asbestos Abatement or Demolition/Renovation forms to the appropriate regulatory agencies.
- Any areas of the building not inspected during this investigation should be assumed to contain asbestos. Prior to any renovation, demolition, or disturbance of potential ACBM, selective demolition with appropriate controls are recommended until the asbestos content of the potentially impacted materials can be confirmed.
- The owner should maintain an Operations and Maintenance (O&M) Program for ACBM remaining in the facility.

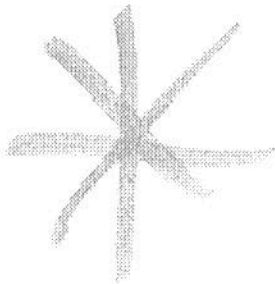


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1.0 INTRODUCTION

The Grede Foundries, Inc. Reedsburg Foundry facility is located at 700 Ash Street in the City of Reedsburg, Wisconsin. The facility was constructed in stages from the 1940s through the 1990s and is comprised of steel frame on concrete slab construction. The approximately 350,000 square foot facility consists of office areas, mechanical spaces, maintenance/tooling areas, storage spaces, shipping and warehousing areas. The remaining areas of the facility consist of manufacturing operations.

The EPA's NESHAP (40 CFR Part 61) requires building owners to inspect for ACM, specifically in areas of a building where renovation or demolition will be performed. Prior to renovation or demolition of a building, all regulated friable ACM must be removed from the affected area. In addition, non-friable materials, which are in a damaged condition or are likely to become friable during the process of renovation or demolition also require removal. Non-friable materials, which are in good condition at the time of inspection and most likely will not become friable during demolition may under certain circumstances, remain in place prior to demolition. EPA and OSHA define any building material that contains greater than one-percent asbestos to be an asbestos-containing material.

1.1 Project Description

The Grede Foundries, Inc. Reedsburg Foundry facility located at 700 Ash Street in the City of Reedsburg, Wisconsin was inspected by USEPA and state of Wisconsin certified building inspectors (b) (6), (b) (7)(C) and (b) (6), (b) (7)(C) for the presence of asbestos-containing materials. A total of 42 bulk samples were collected and analyzed by Nova's NVLAP accredited laboratory. The survey and assessment were conducted in accordance with EPA's Asbestos Hazard Emergency Response Act (AHERA).

1.2 Assessment Methodology

Materials identified as asbestos containing were assessed with respect to their existing condition and the potential for future damage or disturbance. The condition of the materials were assessed relative to the following criteria:

- Existing mechanical damage (percentage and type)
- Water damage
- Accumulation of debris, dust, powder below suspect ACM
- Friability
- Area usage and expected duration of use
- Accessibility

The potential for future damage and disturbance were evaluated with respect to:

- Potential for worker contact with the ACBM
- Influence of vibration on the materials

Based on these factors each ACBM was assigned a hazard ranking ranging from 1 to 7. Using the EPA Decision Tree a recommended Response Action is applied to each ACBM. The EPA Decision Trees are presented in Appendix C: Figures 1 & 2. The hazard rankings and applicable response actions are listed below:

Hazard Ranking

- 1 Asbestos-containing building materials (ACBM) are present and significant damage has occurred (ACBM loose and subject to dispersal in moving air)
- 2 ACBM is present and damage has occurred. The ACBM is in areas where fiber disruption could be expected due to work being performed in the area and/or dispersed in moving air.
- 3-5 ACBM is present and damage has occurred. There is moderate to low potential for disturbance and entrainment into an airflow is unlikely.
- 6-7 ACBM is present without damage in areas subject to moderate or high activity, or potential for disturbance.

Response Action

Isolate area and restrict access. Removal of asbestos should be conducted as soon as possible to prevent accidental fiber release. Where applicable, effect repair to the damaged ACBM to alter Response Action.

Continue O&M. Repair or remove damaged areas as soon as possible. Short-term corrective actions may include:

- a. Reduce potential for disturbance.
- b. Encapsulate damaged sections.
- c. Restrict access to the area.

Patch and repair the damaged ACBM sections with bridging encapsulant, rewettable cloth, or glove bag removal. Continue O&M. Number indicates priority if all repairs cannot be done immediately.

Continue O&M. Take measures to reduce the potential for disturbance. Number indicates priority for removal.

2.0 RESULTS

2.1 Asbestos-Containing Material

The following types of material were found to contain asbestos. The area-by-area inventory is presented in Section 5.0 as Table 1: Material Identification Inventory. The laboratory analytical results are presented in Section 5.0 as Table 2: Material Sample Analysis.

Asbestos was identified in the following materials (includes presumed/assumed positive materials):

| Material ID Number | Material Identification | Material Subcategory | Area | Sum Of Quantity | Unit | Condition | Friability |
|--------------------|---------------------------|---------------------------------------|-------------------------------------|-----------------|------|-------------|-------------|
| 214 | 4-8 Felt Pipe Insulation | 6" Wrapped Pipe Insulation | Plant Office | 100 | LF | Non-Damaged | Friable |
| 310 | 12x12 Floor Tile & Mastic | Tan Mottled | Plant 5 Maintenance | 250 | SF | Non-Damaged | Non-friable |
| 310 | 12x12 Floor Tile & Mastic | White Floor Tile | Plant 5 Maintenance | 900 | SF | Non-Damaged | Non-friable |
| 324 | Transite Pipe | Exhaust Pipe | Storage Room Above Main Locker Room | 40 | SF | Non-Damaged | Non-friable |
| 324 | Transite Siding | Exterior Siding | North Storage Building | 800 | SF | Non-Damaged | Non-friable |
| 406 | Roofing Insulation | Fibrous Roof Insulation Under Decking | Mechanical Room | 4,000 | SF | Non-Damaged | Friable |

4-8" Felt Pipe Insulation & Associated Fittings: Approximately 100 linear feet of friable asbestos-containing material was identified beneath a stairwell adjacent to the main office area. This material was damaged and appeared to be in poor condition during the time of the survey.

12" X 12" Tan Mottled Floor Tile & Associated Mastic: Approximately 750 square feet of non-friable asbestos-containing material was identified in the Plant 5 Maintenance upper level office and training rooms. This material was not damaged and appeared to be in generally good condition during the time of the survey.

12" X 12" White Floor Tile & Associated Mastic: Approximately 900 square feet of non-friable asbestos-containing material was identified in the plant offices, stairwell, and tool storage areas. This material was not damaged and appeared to be in generally good condition during the time of the survey.

Roofing Insulation: Approximately 4,000 square feet of friable asbestos-containing material was identified beneath the corrugate metal decking adjacent to a second floor storage room. This material was not damaged and appeared to be in generally good condition during the time of the survey.

Transite Exhaust Pipe: Approximately 40 square feet of non-friable asbestos-containing material was identified in a second floor storage area. This material was not damaged and appeared to be in generally good condition during the time of the survey.

Transite Siding: Approximately 800 square feet of non-friable asbestos-containing material was identified at the north storage building. This material was not damaged and appeared to be in generally good condition during the time of the survey.

The following materials were analyzed and do not contain asbestos:

| Material Identification Number | Material Identification | Material Subcategory | Material Subcategory Description | Sum Of Quantity | Unit |
|--------------------------------|---------------------------|----------------------|---|-----------------|------|
| 101 | Spray-On | SO1 | Spray-On Soundproofing | 1,700 | SF |
| 222 | 0-4 Fibrous Pipe Fittings | FF1 | Fibrous Fittings On Fiberglass Insulation | 90 | EA |
| 222 | 0-4 Fibrous Pipe Fittings | FF2 | 2" Mudded Fittings On Rest Room Lines | 180 | EA |

| | | | | | |
|-----|-----------------------------------|-----|--|--------|----|
| 241 | Tank Insulation | TI1 | Spray-On Tank Insulation | 300 | SF |
| 303 | 2x4 Ceiling Tile | CT1 | Off-White Fissured | 750 | SF |
| 303 | 2x4 Ceiling Tile | CT2 | White With Fissures | 2,700 | SF |
| 303 | 2x4 Ceiling Tile | CT3 | Off-White With Fissures And Pinholes | 3,000 | SF |
| 305 | Sheetrock & Taping Compound | DW1 | Drywall/ Taping Compound | 60,000 | SF |
| 306 | Plaster | PL1 | Wall Plaster | 300 | SF |
| 310 | 12x12 Floor Tile & Mastic | FT3 | Grey Mottled | 900 | SF |

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Nova conducted an asbestos survey and assessment of the Grede Foundries, Inc. Reedsburg Foundry facility located at 700 Ash Street in Reedsburg Wisconsin on March 21-22, 2000. Laboratory analysis of 42 bulk samples detected asbestos (includes presumed/assumed positive materials) in the following materials:

| Material Identification Number | Material Identification | Material Subcategory | Material Subcategory Description | Sum Of Quantity | Unit |
|--------------------------------|---------------------------|----------------------|---------------------------------------|-----------------|------|
| 214 | 4-8 Felt Pipe Insulation | FP1 | 6" Wrapped Pipe Insulation | 100 | LF |
| 310 | 12x12 Floor Tile & Mastic | FT1 | Tan Mottled | 250 | SF |
| 310 | 12x12 Floor Tile & Mastic | FT2 | White Floor Tile | 900 | SF |
| 324 | Transite Pipe | TR1 | Exhaust Pipe | 40 | SF |
| 324 | Transite Siding | TR2 | Exterior Siding | 800 | SF |
| 406 | Roofing Insulation | RI1 | Fibrous Roof Insulation Under Decking | 4,000 | SF |

A total of approximately 100 linear feet of friable asbestos-containing pipe-insulation and associated pipe-fittings, 4,000 square feet of friable asbestos-containing roof insulation; 1,150 square feet of non-friable asbestos-containing 12" X 12" floor tile and associated mastic; 40 square feet of non-friable transite exhaust pipe; and 800 square feet of non-friable asbestos-containing transite siding was identified during the survey.

Nova did not inspect any areas of the building that were not readily accessible without intrusive or destructive sampling techniques, such as within or behind walls. Any areas of the building not accessible for inspection during the survey should be assumed to contain asbestos until tested and proven otherwise.

3.2 Recommendations

Based on the results of this investigation, Nova recommends the following:

- The facility owners should notify employees, tenants, contractors, and vendors working in the building of the presence, quantity, and location of identified or assumed ACBM.
- Approximately 100 linear feet of friable asbestos-containing pipe-insulation and associated pipe-fittings were identified beneath a stairwell adjacent to the main office area. In addition, approximately 4,000 square feet of friable asbestos-containing roof insulation was identified beneath the corrugated roof decking adjacent to a second floor storage room; 1,150 square feet of non-friable asbestos-containing 12" X 12" floor tile and associated mastic was identified in the Plant 5 Maintenance offices and storage areas; approximately 40 square feet of non-friable transite exhaust pipe was identified in the storage room above the main locker room area; and approximately 800 square feet of non-friable asbestos-containing transite siding was identified at the north storage building. The pipe insulation and associated fittings were damaged and in poor condition during the time of the survey and were given an AHERA Hazard Ranking of 2. A Hazard Ranking of 2 is defined as ACBM that is damaged and is located in areas where disruption could be expected due to work being performed in the area and/or dispersed in moving air. The roof insulation was not damaged and in good condition during the time of the survey and was given an AHERA Hazard Ranking of 6. A Hazard Ranking of 6 is defined as friable ACBM that is in good condition, but has potential for damage. Hazard Rankings are not required for non-friable materials (i.e. vinyl floor tile, mastic, transite) and are therefore not provided as part of this report.
- According to the EPA Decision Tree, continue Operations and Maintenance (O&M) and repair or remove damaged areas as soon as possible. Short-term corrective action may include reducing potential for damage, encapsulating damaged sections and/or restricting access to the area.
- All friable ACBM, damaged non-friable ACBM, and all non-friable ACBM, which may become friable during renovation or demolition, should be removed from the affected areas of the building prior to these activities.
- The owners should submit completed Notifications of Intent to Perform Asbestos Abatement or Demolition/Renovation forms to the appropriate regulatory agencies.

- Any areas of the building not inspected during this investigation should be assumed to contain asbestos. Prior to any renovation, demolition, or disturbance of potential ACBM, selective demolition with appropriate controls are recommended until the asbestos content of the potentially impacted materials can be confirmed.
- The owner should maintain an Operations and Maintenance (O&M) Program for ACBM remaining in the facility.

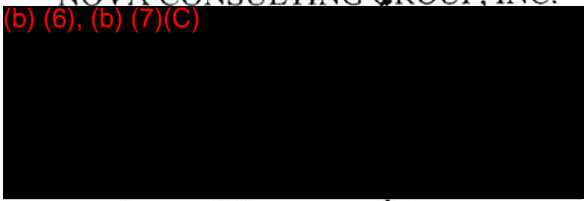
4.0 STANDARD OF CARE

The services performed by Nova Consulting Group, Inc. (Nova) on this project have been conducted with that level of care of skill ordinarily exercised by reputable members of the profession, practicing in the same locality under similar budget and time constraints. No other warranty is expressed or implied.

Prepared By:


NOVA CONSULTING GROUP, INC.

(b) (6), (b) (7)(C)



Project Manager

(b) (6), (b) (7)(C)



Group Manager

5.0 TABLE 1, TABLE 2, DRAWINGS

TABLE 1

MATERIAL IDENTIFICATION INVENTORY

Nova Consulting Group, Inc.
 1107 Hazeltine Boulevard, Suite #400
 Chaska, MN 55318

Table 1: Material Identification Inventory

Project Number: C00-0065
Client Number: DAVIS 005
Login Number: 23821
Building Number:

Client Name: Davis and Kuehlthau
Building Name: Grade Reedsburg Foundry
Building Address: 700 Ash Street
 Reedsburg, WI 53959

Survey Date: March (21,22), 2000

| Area: | | Lunch Room | | | | | | | | | | |
|-----------|-------------|--------------|---------------------------|------------|------------------|----------|------------------|------|------------------|-----|--------------------|------|
| Location | Room Number | Material Id# | Material Identification | Mat'l Code | Asbestos Content | Qty Unit | Physical Assess. | | Damage Potential | | Cond. AMERA Rating | Cat. |
| | | Subcategory | Subcategory Description | | | | Fri | Cond | Water | Air | | |
| 2nd Floor | 2070 | 310 | 12x12 Floor Tile & Mastic | M | ND | 300 SF | | | | | 0 | NA |
| | | FT3 | Grey Mottled | | | | | | | | | |
| 2nd Floor | 2070 | 310 | 12x12 Floor Tile & Mastic | M | ND | 300 SF | | | | | 0 | NA |
| | | FT3 | Grey Mottled | | | | | | | | | |
| 2nd Floor | 2070 | 310 | 12x12 Floor Tile & Mastic | M | ND | 300 SF | | | | | 0 | NA |
| | | FT3 | Grey Mottled | | | | | | | | | |

Nova Consulting Group, Inc.
 1107 Hazeltine Boulevard, Suite #400
 Chaska, MN 55318

Table 1: Material Identification Inventory

Project Number: C00-0065
Client Number: DAVIS 006
Login Number: 23821
Building Number:

Client Name: Davis and Kuelthau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
 Reedsburg, WI 53959
Survey Date: March (21, 22), 2000

| Area: Main Office | | | | | | | | | | | | | |
|---------------------|-------------|-----------------------------|-------------------------|------------------|----------|-----|--------|-------|-----|-------------|-----|--------|------|
| Location | | Material Id# | Material Identification | | Physical | | Damage | | | Cond. AHERA | | | |
| Room Number | Subcategory | Subcategory Description | Mat'l Code | Asbestos Content | Qty Unit | Fri | Cond | Water | Air | Vib | Acc | Rating | Cal. |
| North Side of Plant | 305 | Sheetrock & Taping Compound | M | NID | 20000 SF | | | | | | | 0 | NA |
| Closet | DW1 | Drywall/ Taping Compound | | | | | | | | | | | |

Nova Consulting Group, Inc.
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Chaska, MN 55318

Table 1: Material Identification Inventory

Project Number: C00-0065
Client Number: DAVIS 005
Login Number: 23821
Building Number:

Client Name: Davis and Kuehnau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
Reedsburg, WI 53959
Survey Date: March (21,22), 2000

| Area: Mechanical Room | | Material Identification | | Physical | | Damage | | Cond. AHERA Rating Cal. |
|------------------------|--------------|---------------------------------------|------------|------------------|----------|--------------------|-----------------------------|-------------------------|
| Location | Material Id# | Material Description | Mat'l Code | Asbestos Content | Qty Unit | Asbestos. Frl Cond | Potential Water Air Vib Acc | |
| Room Number | Subcategory | Subcategory Description | | | | | | |
| Above Main Locker Room | 241 | Tank Insulation | T | ND | 100 SF | | | 0 NA |
| Boiler Room | TI1 | Spray-On Tank Insulation | | | | | | |
| Above Main Locker Room | 241 | Tank Insulation | T | ND | 100 SF | | | 0 NA |
| Boiler Room | TI1 | Spray-On Tank Insulation | | | | | | |
| Above Main Locker Room | 241 | Tank Insulation | T | ND | 100 SF | | | 0 NA |
| Boiler Room | TI1 | Spray-On Tank Insulation | | | | | | |
| Above Main Locker Room | 306 | Plaster | M | ND | 100 SF | | | 0 NA |
| Boiler Room | PL1 | Wall Plaster | | | | | | |
| Above Main Locker Room | 306 | Plaster | M | ND | 100 SF | | | 0 NA |
| Boiler Room | PL1 | Wall Plaster | | | | | | |
| Above Main Locker Room | 306 | Plaster | M | ND | 100 SF | | | 0 NA |
| Boiler Room | PL1 | Wall Plaster | | | | | | |
| Above Main Locker Room | 305 | Sheetrock & Taping Compound | M | ND | 20000 SF | | | 0 NA |
| Storage | DW1 | Drywall Taping Compound | | | | | | |
| Above Main Locker Room | 406 | Roofing Insulation | M | YES | 4000 SF | F | N | 2 6 |
| Storage | RI1 | Fibrous Roof Insulation Under Decking | | | | | | |
| Above Main Locker Room | 406 | Roofing Insulation | M | YES | 4000 SF | F | N | 2 6 |
| Storage | RI1 | Fibrous Roof Insulation Under Decking | | | | | | |
| Above Main Locker Room | 406 | Roofing Insulation | M | YES | 4000 SF | F | N | 2 6 |
| Storage | RI1 | Fibrous Roof Insulation Under Decking | | | | | | |
| Above Main Locker Room | 406 | Roofing Insulation | M | YES | 4000 SF | F | N | 2 6 |
| Storage | RI1 | Fibrous Roof Insulation Under Decking | | | | | | |

Table 1: Material Identification Inventory

Client Name: Davis and Kuehlthau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
Reedsburg, WI 53959
Survey Date: March (21,22), 2000

March (21,22), 2000

| Location | Material Id# | Material Identification |
|-------------|--------------|-------------------------|
| Room Number | Subcategory | Subcategory Description |

[illegible]

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Table 1: Material Identification Inventory

Project Number: C00-0065 Client Name: Davis and Kuelthau
Client Number: DAVIS 005 Building Name: Grede Reedsburg Foundry
Login Number: 23821 Building Address: 700 Ash Street
Building Number: Reedsburg, WI 53959

Survey Date: March (21,22), 2000

| Area: Men's Locker/ Bath Room | | | | | | | | | | |
|-------------------------------|--------------|--------------------------------------|--|---------------|---------------------|------|------|---------------------|---------|-----------------|
| Location Room Number | Material Id# | Material Identification | | Mat'l Code | Asbestos Content | Qty | Unit | Physical Assess. | | Cond. AHERA |
| | Subcategory | Subcategory Description | | | | | | Water | Air Vib | Acc Rating Cat. |
| 2nd Floor | 303 | 2x4 Ceiling Tile | | M | ND | 1000 | SF | | | 0 NA |
| 2070 | CT3 | Off-White With Fissures And Pinholes | | | | | | | | |
| 2nd Floor | 303 | 2x4 Ceiling Tile | | M | ND | 1000 | SF | | | 0 NA |
| 2070 | CT3 | Off-White With Fissures And Pinholes | | | | | | | | |
| 2nd Floor | 303 | 2x4 Ceiling Tile | | M | ND | 1000 | SF | | | 0 NA |
| 2070 | CT3 | Off-White With Fissures And Pinholes | | | | | | | | |

Nova Consulting Group, Inc.
 1107 Hazeltine Boulevard, Suite #400
 Chaska, MN 55318

Table 1: Material Identification Inventory

Project Number: C00-0065
Client Number: DAVIS 005
Login Number: 23821
Building Number:

Client Name: Davis and Kuelthau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
 Reedsburg, WI 53859
Survey Date: March (21,22), 2000

Area: Men's Rest Room

| Location | Room Number | Material Identification | | Mat'l Code | Asbestos Content | Qty Unit | Physical Assess. | | Damage Potential | | Cond. AHERA Rating | Cal. |
|--------------------------------------|-------------|-------------------------|---------------------------------------|------------|------------------|----------|------------------|------|------------------|---------|--------------------|------|
| | | Material Id# | Subcategory | | | | Fri | Cond | Water | Air Vib | | |
| 1st Floor Under Locker Room | 2070 | 222 | 0-4 Fibrous Pipe Fittings | T | ND | 60 EA | | | | | 0 | NA |
| | | | 2" Mudded Fittings On Rest Room Lines | | | | | | | | | |
| 1st Floor Under Locker Room | 2070 | 222 | 0-4 Fibrous Pipe Fittings | T | ND | 60 EA | | | | | 0 | NA |
| | | | 2" Mudded Fittings On Rest Room Lines | | | | | | | | | |
| Main Locker Room Behind Main Offices | | 222 | 0-4 Fibrous Pipe Fittings | T | ND | 60 EA | | | | | 0 | NA |
| Rest Room | | FF2 | 2" Mudded Fittings On Rest Room Lines | | | | | | | | | |

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 Chaska, MN 55318

Table 1: Material Identification Inventory

Project Number: C00-0065
Client Number: DAVIS 005
Login Number: 23821
Building Number:

Client Name: Davis and Kueithau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
 Reedsburg, WI 53959
Survey Date: March (21,22), 2009

| Area: | | Out Building | | | | | | | | | | | | | | | |
|----------------|-------------|-----------------|-------------------------|---------------|------------------|----------|------------------|-------|-------|------------------|-----|--------|-------------|--------|-------|--------|-------|
| Location | Room Number | Material Id# | Material Identification | Material Code | Asbestos Content | Qty Unit | Physical Assess. | Cond. | Water | Damage Potential | Acc | Rating | Cond. AHERA | Rating | Cond. | Rating | Cond. |
| North of Plant | 324 | Transite | Transite | M | | 800 SF | N | N | M | L | L | L | L | L | L | L | NA |
| Assumed | TR2 | Transite Siding | | | | | | | | | | | | | | | |

Nova Consulting Group, Inc.
 1107 Hazeltine Boulevard, Suite #400
 Chaska, MN 55318

Table 1: Material Identification Inventory

Project Number: C00-0065
Client Number: DAVIS 005
Log In Number: 23821
Building Number:

Client Name: Davis and Kuehau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
 Reedsburg, WI 53959
Survey Date: March (21,22), 2000

Area: Plant 5 Clean

| Location Room Number | Material Id# Subcategory | Material Identification Subcategory Description | Mat'l Code | Asbestos Content | Qty Unit | Physical Assess. | | | Damage Potential | | | Cond. AHERA Rating Cat. |
|---|-----------------------------|--|---------------|---------------------|----------|---------------------|------|-------|---------------------|-----|-----|----------------------------|
| | | | | | | Fri | Cond | Water | Air | Vib | Acc | |
| Center of Plant Above Locker | 101 SO1 | Spray-On Spray-On Soundproofing | S | ND | 600 SF | | | | | | | 0 NA |
| Center of Plant Above Locker | 101 SO1 | Spray-On Spray-On Soundproofing | S | ND | 600 SF | | | | | | | 0 NA |
| Center of Plant Outside Locker Area | 222 FF-1 | 0-4 Fibrous Pipe Fittings Fibrous Fittings On Fiberglass Insulation | T | ND | 30 EA | | | | | | | 0 NA |

Nova Consulting Group, Inc.
1107 Hazeltine Boulevard, Suite #400
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Table 1: Material Identification Inventory

Project Number: C00-0065
Client Number: DAVIS 005
Login Number: 23821
Building Number:

Client Name: Davis and Kuehlthau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
 Reedsburg, WI 53859

Survey Date: March (21,22), 2000

| Area: Plant 5 Maintenance | | | | | | | | | | |
|---------------------------|--------------|---|--|------------|------------------|-------|------|------------------|------|-------------------|
| Location | Material Id# | Material Identification | | Mat'l Code | Asbestos Content | Qty | Unit | Physical Assees. | | |
| Room Number | Subcategory | Subcategory Description | | | | | | Fri | Cond | Water Air Vib Acc |
| Maintenance Office | 305 | Sheetrock & Taping Compound | | M | ND | 20000 | SF | | | |
| Office | DW1 | Drywall/ Taping Compound | | | | | | | | |
| Plant Offices | 303 | 2x4 Ceiling Tile | | M | ND | 900 | SF | | | |
| Office | CT2 | White With Fissures | | | | | | | | |
| Plant Offices | 303 | 2x4 Ceiling Tile | | M | ND | 900 | SF | | | |
| Office | CT2 | White With Fissures | | | | | | | | |
| Plant Offices | 310 | 12x12 Floor Tile & Mastic | | M | YES | 300 | SF | N | N | L |
| Office | FT2 | White Floor Tile | | | | | | | | |
| Plant Offices | 310 | 12x12 Floor Tile & Mastic | | M | YES | 300 | SF | N | N | L |
| Stairwell | FT2 | White Floor Tile | | | | | | | | |
| Plant Offices | 310 | 12x12 Floor Tile & Mastic | | M | YES | 300 | SF | N | N | L |
| Tool Area | FT2 | White Floor Tile | | | | | | | | |
| SW Area | 101 | Spray-On | | S | ND | 500 | SF | | | |
| Maintenance | SO1 | Spray-On Soundproofing | | | | | | | | |
| SW Area | 222 | 0-4 Fibrous Pipe Fittings | | T | ND | 30 | EA | | | |
| Maintenance | FT1 | Fibrous Fittings On Fiberglass Insulation | | | | | | | | |
| SW Area | 222 | 0-4 Fibrous Pipe Fittings | | T | ND | 30 | EA | | | |
| Maintenance | FT1 | Fibrous Fittings On Fiberglass Insulation | | | | | | | | |
| Upper Level Office | 303 | 2x4 Ceiling Tile | | M | ND | 250 | SF | | | |
| Training Room | CT1 | Off-White Fissured | | | | | | | | |

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Table 1: Material Identification Inventory

Project Number: C00-0065
Client Number: DAVIS 005
Login Number: 23821
Building Number:

Client Name: Davis and Kuelthau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
 Reedsburg, WI 53959
Survey Date: March (21,22), 2000

| Area: Plant 5 Maintenance | | | | | | | | | | | | | | | |
|----------------------------------|--------------|---------------------------------------|--|--|------------|------------------|------------------|------|-----|------|-------|------------------|-----|-------------------------|------|
| Location | Material Id# | Material Identification | | | Mat'l Code | Asbestos Content | Physical Assess. | | | | | Damage Potential | | Cond. AMERA Rating Cat. | |
| Room Number | Subcategory | Subcategory Description | | | | | Qty | Unit | Fri | Cond | Water | Air | Vib | Acc | |
| Upper Level Office Training Room | 303 CT1 | 2x4 Ceiling Tile Off-White Fissured | | | M | ND | 250 SF | | | | | | | | 0 NA |
| Upper Level Office Training Room | 303 CT1 | 2x4 Ceiling Tile Off-White Fissured | | | M | ND | 250 SF | | | | | | | | 0 NA |
| Upper Level Office Training Room | 310 FT1 | 12x12 Floor Tile & Mastic Tan Mottled | | | M | YES | 250 SF | N | N | L | L | L | M | 1 | NA |
| Upper Level Office Training Room | 310 FT1 | 12x12 Floor Tile & Mastic Tan Mottled | | | M | YES | 250 SF | N | N | L | L | L | M | 1 | NA |
| Upper Level Office Training Room | 310 FT1 | 12x12 Floor Tile & Mastic Tan Mottled | | | M | YES | 250 SF | N | N | L | L | L | M | 1 | NA |
| Upper Level Plant Offices | 303 CT2 | 2x4 Ceiling Tile White With Fissures | | | M | ND | 900 SF | | | | | | | | 0 NA |



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Table 1: Material Identification Inventory

Project Number: C00-0065
Client Number: DAVIS 005
Login Number: 23821
Building Number:

Client Name: Davis and Kuehlthau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
 Reedsburg, WI 53959
Survey Date: March (21,22), 2000

| Area: Plant Office | | Material Identification | | Physical | | Damage | | Cond. AHERA | |
|---------------------|--------------|----------------------------|------------|------------------|----------|---------|-------------------|-------------|-----------|
| Location | Material Id# | Material Description | Mat'l Code | Asbestos Content | Qty Unit | Assess. | Potential | Rating | Col. |
| Room Number | Subcategory | Subcategory Description | | | | Fri | Water Air Vib Acc | | |
| Behind Main Offices | 214 | 4-8 Felt Pipe Insulation | T | YES | 100 LF | F | SD | H | L L M 4 1 |
| Under Stairwell | FP1 | 6" Wrapped Pipe Insulation | | | | | | | |
| Behind Main Offices | 214 | 4-8 Felt Pipe Insulation | T | YES | 100 LF | F | SD | H | L L M 4 1 |
| Under Stairwell | FP1 | 6" Wrapped Pipe Insulation | | | | | | | |
| Behind Main Offices | 214 | 4-8 Felt Pipe Insulation | T | YES | 100 LF | F | SD | H | L L M 4 1 |
| Under Stairwell | FP1 | 6" Wrapped Pipe Insulation | | | | | | | |

TABLE 2

MATERIAL SAMPLE ANALYSIS

Nova Consulting Group, Inc.
1107 Hazeltine Boulevard, Suite #400
Chaska, MN 55318

Table 2: Bulk Sample Analysis

Project Number: C00-0065
Client Number: DAVIS 005
Login Number: 23821
Building Number:

Client Name: Davis and Kuelthau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
Reedsburg, WI 53959

Survey Date: March (21,22), 2000

Project Manager: (b) (6), (b) (7)(C)
Analytical Method: Polarized Light Microscopy with Dispersion Staining (EPA/600/R-63/116, July 1993)

Container Type: Whirlpak
Total # Samples: 42

| | | | |
|--|-----------------------------|---|-----------------------------|
| Sampled By: (b) (6), (b) (7)(C) | Date/Time: 3/21/2000 | Received/Lab By: (b) (6), (b) (7)(C) | Date/Time: 3/24/2000 |
| Received By: | Date/Time: | Logged In By: | Date/Time: 4/3/2000 |
| Relinquished By: | Date/Time: | Analyzed By: | Date/Time: 4/5/2000 |
| Turnaround Time: | Due: | Client Notified By: | Date/Time: |

Note

| MH ID#-Sub-Ltr | Area | Location / Room# | Material Description | Subcategory Description | Asbestos Fiber | Non-Asbestos Fibers | Comments/ Nonfibrous Material |
|----------------|--|--------------------------|----------------------------|-------------------------|----------------|---------------------|----------------------------------|
| 101 - SO1 - A | Plant 5 Maintenance SW Area / Maintenance | Spray-On | Spray-On Soundproofing | | ND | 95% Cellulose | 5% Other |
| 101 - SO1 - B | Plant 5 Clean Center of Plant / Above Locker | Spray-On | Spray-On Soundproofing | | ND | 95% Cellulose | 5% Other |
| 101 - SO1 - C | Plant 5 Clean Center of Plant / Above Locker | Spray-On | Spray-On Soundproofing | | ND | 95% Cellulose | 5% Other |
| 214 - FP1 - A | Plant Office Behind Main Offices / Under Stairwell | 4-8 Felt Pipe Insulation | 6" Wrapped Pipe Insulation | | ND | 95% Cellulose | 5% Other Brown Fibrous |
| 214 - FP1 - A | Plant Office Behind Main Offices / Under Stairwell | 4-8 Felt Pipe Insulation | 6" Wrapped Pipe Insulation | | 15% Chrysotile | 50% Cellulose | 35% Other Tan Fibrous |
| 214 - FP1 - B | Plant Office Behind Main Offices / Under Stairwell | 4-8 Felt Pipe Insulation | 6" Wrapped Pipe Insulation | | ND | 95% Cellulose | 5% Other Brown Fibrous |
| 214 - FP1 - B | Plant Office Behind Main Offices / Under Stairwell | 4-8 Felt Pipe Insulation | 6" Wrapped Pipe Insulation | | 15% Chrysotile | 50% Cellulose | 35% Other Tan Fibrous |

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 Chaska, MN 55318

Table 2: Bulk Sample Analysis

Project Number: C00-0065
Client Number: DAVIS 005
Login Number: 23821
Building Number:

Client Name: Davis and Kuehnau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
 Reedsburg, WI 53959

Survey Date: March (21,22), 2000

| Mtl ID#-Sub-Ltr | Area | Location / Room# | Material Description | Subcategory Description | Asbestos Fiber | Non-Asbestos Fibers | Comments/ Nonfibrous Material |
|-----------------|---|---------------------------|--|-------------------------|------------------------------------|--------------------------|----------------------------------|
| 214 - FP1 -C | Plant Office Behind Main Offices / Under Stairwell | 4-8 Felt Pipe Insulation | 6" Wrapped Pipe Insulation | ND | 95% Cellulose | 5% Other | |
| 214 - FP1 -C | Plant Office Behind Main Offices / Under Stairwell | 4-8 Felt Pipe Insulation | 6" Wrapped Pipe Insulation | 20% Chrysotile | 50% Cellulose | 30% Other Tan Fibrous | |
| 222 - FF1 -A | Plant 5 Maintenance SW Area / Maintenance | 0-4 Fibrous Pipe Fittings | Fibrous Fittings On Fiberglass Insulation | ND | 5% Cellulose 15% Fibrous Glass | 80% Other | |
| 222 - FF1 -B | Plant 5 Maintenance SW Area / Maintenance | 0-4 Fibrous Pipe Fittings | Fibrous Fittings On Fiberglass Insulation | ND | 15% Fibrous Glass | 85% Other | |
| 222 - FF1 -C | Plant 5 Clean Center of Plant / Outside Locker Area | 0-4 Fibrous Pipe Fittings | Fibrous Fittings On Fiberglass Insulation | ND | 15% Fibrous Glass | 85% Other | |
| 222 - FF2 -A | Men's Rest Room 1st Floor Under Locker Room / 2070 | 0-4 Fibrous Pipe Fittings | 2" Mudded Fittings On Rest Room Lines | ND | 10% Cellulose 15% Fibrous Glass | 75% Other | |
| 222 - FF2 -B | Men's Rest Room 1st Floor Under Locker Room / 2070 | 0-4 Fibrous Pipe Fittings | 2" Mudded Fittings On Rest Room Lines | ND | 10% Cellulose 15% Fibrous Glass | 75% Other | |
| 222 - FF2 -C | Men's Rest Room Main Locker Room Behind Main Offices / Rest Room | 0-4 Fibrous Pipe Fittings | 2" Mudded Fittings On Rest Room Lines | ND | 10% Cellulose 15% Fibrous Glass | 75% Other | |
| 241 - TI1 -A | Mechanical Room Above Main Locker Room / Boiler Room | Tank Insulation | Spray-On Tank Insulation | ND | 95% Cellulose | 5% Other | |
| 241 - TI1 -B | Mechanical Room Above Main Locker Room / Boiler Room | Tank Insulation | Spray-On Tank Insulation | ND | 95% Cellulose | 5% Other | |

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Table 2: Bulk Sample Analysis

Project Number: C00-0065
Client Number: DAVIS 005
Login Number: 23621
Building Number:

Client Name: Davis and Kuehthau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
 Reedsburg, WI 53959

Survey Date: March (21,22), 2000

| Mtl ID#-Sub-Ltr | Area | Location / Room# | Material Description | Subcategory Description | Asbestos Fiber | Non-Asbestos Fibers | Comments/ Nonfibrous Material |
|-----------------|--|------------------|-----------------------------|---|----------------|--|----------------------------------|
| 241 - T11 - C | Mechanical Room Above Main Locker Room / Boiler Room | | Tank Insulation | Spray-On Tank Insulation | NID | 95% Cellulose | 5% Other |
| 303 - CT1 - A | Plant 5 Maintenance Upper Level Office / Training Room | | 2x4 Ceiling Tile | Off-White Fissured | NID | 60% Cellulose 10% Fibrous Glass | 30% Other |
| 303 - CT1 - B | Plant 5 Maintenance Upper Level Office / Training Room | | 2x4 Ceiling Tile | Off-White Fissured | NID | 60% Cellulose 10% Fibrous Glass | 30% Other |
| 303 - CT1 - C | Plant 5 Maintenance Upper Level Office / Training Room | | 2x4 Ceiling Tile | Off-White Fissured | NID | 60% Cellulose 10% Fibrous Glass | 30% Other |
| 303 - CT2 - A | Plant 5 Maintenance Plant Offices / Office | | 2x4 Ceiling Tile | White With Fissures | NID | 60% Cellulose 10% Fibrous Glass | 30% Other |
| 303 - CT2 - B | Plant 5 Maintenance Plant Offices / Office | | 2x4 Ceiling Tile | White With Fissures | NID | 60% Cellulose 10% Fibrous Glass | 30% Other |
| 303 - CT2 - C | Plant 5 Maintenance Upper Level Plant Offices / Office | | 2x4 Ceiling Tile | White With Fissures | NID | 60% Cellulose 10% Fibrous Glass | 30% Other |
| 303 - CT3 - A | Men's Locker/ Bath Room 2nd Floor / 2070 | | 2x4 Ceiling Tile | Off-White With Fissures And Pinholes | NID | 50% Cellulose 20% Fibrous Glass | 30% Other |
| 303 - CT3 - B | Men's Locker/ Bath Room 2nd Floor / 2070 | | 2x4 Ceiling Tile | Off-White With Fissures And Pinholes | NID | 50% Cellulose 20% Fibrous Glass | 30% Other |
| 303 - CT3 - C | Men's Locker/ Bath Room 2nd Floor / 2070 | | 2x4 Ceiling Tile | Off-White With Fissures And Pinholes | NID | 50% Cellulose 20% Fibrous Glass | 30% Other |
| 305 - DW1 - A | Mechanical Room Above Main Locker Room / Storage | | Sheetrock & Taping Compound | Drywall/ Taping Compound | NID | 100% Other Taping Compound Layer | |

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1107 Hazeltine Boulevard, Suite #400
Chaska, MN 55318

Table 2: Bulk Sample Analysis

Project Number: C00-0065
Client Number: DAVIS 005
Login Number: 23821
Building Number:

Client Name: Davis and Kuehlthau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
Reedsburg, WI 53959
Survey Date: March (21,22), 2000

| Mtl ID#-Sub-Ltr | Area | Location / Room# | Material Description | Subcategory Description | Asbestos Fiber | Non-Asbestos Fibers | Comments/ Nonfibrous Material |
|-----------------|--|------------------|-----------------------------|--------------------------|----------------|-----------------------------------|--|
| 305 - DW1 - A | Mechanical Room Above Main Locker Room / Storage | | Sheetrock & Taping Compound | Drywall/ Taping Compound | ND | 10% Cellulose 3% Fibrous Glass | 87% Other Sheetrock Layer |
| 305 - DW1 - B | Plant 5 Maintenance Maintenance Office / Office | | Sheetrock & Taping Compound | Drywall/ Taping Compound | ND | 5% Cellulose 3% Fibrous Glass | 92% Other Sheetrock Layer |
| 305 - DW1 - C | Main Office North Side of Plant / Closet | | Sheetrock & Taping Compound | Drywall/ Taping Compound | ND | 10% Cellulose 3% Fibrous Glass | No Taping Compound 87% Other Sheetrock Layer |
| 306 - PL1 - A | Mechanical Room Above Main Locker Room / Boiler Room | | Plaster | Wall Plaster | ND | | No Taping Compound 100% Other |
| 306 - PL1 - B | Mechanical Room Above Main Locker Room / Boiler Room | | Plaster | Wall Plaster | ND | | 100% Other |
| 306 - PL1 - C | Mechanical Room Above Main Locker Room / Boiler Room | | Plaster | Wall Plaster | ND | | 100% Other |
| 310 - FT1 - A | Plant 5 Maintenance Upper Level Office / Training Room | | 12x12 Floor Tile & Mastic | Tan Mottled | 3% Chrysotile | | 97% Other Floor Tile No Mastic |
| 310 - FT1 - B | Plant 5 Maintenance Upper Level Office / Training Room | | 12x12 Floor Tile & Mastic | Tan Mottled | 3% Chrysotile | | 97% Other Floor Tile |
| 310 - FT1 - B | Plant 5 Maintenance Upper Level Office / Training Room | | 12x12 Floor Tile & Mastic | Tan Mottled | ND | | 100% Other Clear Mastic |
| 310 - FT1 - C | Plant 5 Maintenance Upper Level Office / Training Room | | 12x12 Floor Tile & Mastic | Tan Mottled | 3% Chrysotile | | 97% Other Floor Tile |

Nova Consulting Group, Inc.
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Table 2: Bulk Sample Analysis

Project Number: C00-0065
Client Number: DAVIS 006
Login Number: 23621
Building Number:

Client Name: Davis and Kueithau
Building Name: Grede Reedsburg Foundry
Building Address: 700 Ash Street
 Reedsburg, WI 53959

Survey Date: March (21,22), 2000

| Mtl ID#-Sub-Ltr | Area | Location / Room# | Material Description | Subcategory Description | Asbestos Fiber | Non-Asbestos Fibers | Comments/ Nonfibrous Material |
|-----------------|--|--------------------|--|-------------------------|-------------------|---------------------|----------------------------------|
| 406 - R11 -B | Mechanical Room Above Main Locker Room / Storage | Roofing Insulation | Fibrous Roof Insulation Under Decking | 35% Chrysotile | 15% Fibrous Glass | 50% Other | |
| 406 - R11 -C | Mechanical Room Above Main Locker Room / Storage | Roofing Insulation | Fibrous Roof Insulation Under Decking | 25% Chrysotile | 15% Fibrous Glass | 60% Other | |